

Datasheet for ABIN7553548
ORAI1 Protein (AA 1-301) (His tag)



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Overview

Quantity:	1 mg
Target:	ORAI1
Protein Characteristics:	AA 1-301
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ORAI1 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ORAI1 Protein expressed in mammalian cells.
Sequence:	MHPEPAPPPS RSSPELPPSG GSTTSGSRRS RRRSGDGEPP GAPPPPPSAV TYPDWIGQSY SEVMSLNEHS MQALSWRKLY LSRAKLKASS RTSALLSGFA MVAMVEVQLD ADHDYPPGLL IAFSACTTVL VAVHLFALMI STCILPNIEA VSNVHNLNSV KESPHERMHR HIELAWAFST VIGTLLFLAE VLLCWVKFL PLKKQPGQPR PTSKPPASGA AANVSTSGIT PGQAAAIAST TIMVPFGLIF IVFAVHFYRS LVSHKTDQRQ QELNELAEFA RLQDQLDHRG DHPLTPGSHY A Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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Target Details

Target:	Orai1
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Alternative Name:	Orai1 (Orai1 Products)
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Background:	Calcium release-activated calcium channel protein 1 (Protein orai-1) (Transmembrane protein 142A),FUNCTION: Ca(2+) release-activated Ca(2+) (CRAC) channel subunit which mediates Ca(2+) influx following depletion of intracellular Ca(2+) stores and channel activation by the Ca(2+) sensor, STIM1 (PubMed:16582901, PubMed:16645049, PubMed:16733527, PubMed:16766533, PubMed:16807233, PubMed:19249086, PubMed:23307288, PubMed:24351972, PubMed:24591628, PubMed:28219928, PubMed:20354224, PubMed:26956484). CRAC channels are the main pathway for Ca(2+) influx in T-cells and promote the immune response to pathogens by activating the transcription factor NFAT (PubMed:16582901). Plays a prominent role in Ca(2+) influx at the basolateral membrane of mammary epithelial cells independently of the Ca(2+) content of endoplasmic reticulum or Golgi stores. May mediate transepithelial transport of large quantities of Ca(2+) for milk secretion. {ECO:0000250 UniProtKB:Q8BWG9, ECO:0000269 PubMed:16582901, ECO:0000269 PubMed:16645049, ECO:0000269 PubMed:16733527, ECO:0000269 PubMed:16766533, ECO:0000269 PubMed:16807233,
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Target Details

ECO:0000269|PubMed:19249086, ECO:0000269|PubMed:20354224,
ECO:0000269|PubMed:20887894, ECO:0000269|PubMed:23307288,
ECO:0000269|PubMed:24351972, ECO:0000269|PubMed:24591628,
ECO:0000269|PubMed:26956484, ECO:0000269|PubMed:28219928}.

Molecular Weight: 32.7 kDa

UniProt: [Q96D31](#)

Pathways: [TCR Signaling](#), [BCR Signaling](#)

Application Details

Application Notes: We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months